**Course name:** COMPLEX PROJECT

**Curriculum:** Architecture BSc

**Course code:** EPB318ANEM

**Semester:** 7

**Credits (ECTS):** 15

**Class hours/week:** 0/0/10

**Form of assessment:** mid-term grade

**Prerequisites:** EPE316ANEM, Design Studio 6

EPE105ANEM, Building Constuctions 5

Subject responsible lecturer: Péter ZILAHI dr., assistant professor

Office: 7624 Hungary, Pécs, Boszorkány str. 2. B-327

E-mail: zilahi.peter@mik.pte.hu

Instructors: Bálint BARANYAI dr., assistant professor

Office: 7624 Hungary, Pécs, Ifjúság street 20 I.em 114

E-mail: [baranyai.balint@mik.pte.hu](mailto:baranyai.balint@mik.pte.hu)

Veronika SZTRANYÁK dr., assistant professor

Office: 7624 Hungary, Pécs, Boszorkány str. 2. B-327

E-mail: [sztranyak.veronika@mik.pte.hu](mailto:sztranyak.veronika@mik.pte.hu)

Péter ZILAHI dr., assistant professor

Office: 7624 Hungary, Pécs, Boszorkány str. 2. B-327

E-mail: zilahi.peter@mik.pte.hu

## General Course Description

The aim of the course is for students to summarise the professional knowledge they have learned so far. The design documentation produced in the course is an integral part of the written documentation produced in the course "BSc Thesis". The preparation and submission of both together form the core of the diploma. By the end of the semester, all students should be able to design a small-scale public building in a complex way, prepare its construction, and understand its technological and structural systems. They should be able to give a high quality presentation of the building to be defended as a diploma project and have a complex overview of the disciplines.

Students work on a complex design task continuously consulting with and supported by the collaborative fields as building structure, energy design, building design and digital architecture. The added aim of the course is to raise actual architectural questions and to give up-to-date, adequate answers during the creative work.

Learning Outcomes

The aim of the course is to enable the students to demonstrate their professional skills and knowledge to be able to process the design of a building at the level of the detailed design, so that the final design reflects a general vision of the different design disciplines. In the "Complex Project" course, the student has to prepare the design of a small-scale (ca. 500 m2 total floor area) public building. The students will primarily develop one of their own designs for a former public building.

By the end of the course, participants will have acquired the following professional competences:

Knowledge:

* Perceiving the connections and relations between the human, natural and architectural environment.
* Knowing the social, economic and ethical responsibility of the architect.
* Knowing the typical structural and building structural solutions of buildings, the principles and methods of selection, design and dimensioning, the properties of building materials.
* Knowing the types and specifications of architectural drawings and technical documentation

Capability:

* The ability to see the design process from concept to detail design, and to select the most appropriate solutions, materials and layouts.
* Ability to manage aesthetic, functional, technical, economic and social requirements in a complex way in architectural design
* Ability to think through the structural, building structural and mechanical engineering problems of the building to be designed, and to prepare a conceptual design

Attitude:

* Aim to achieve high-quality, harmonious architectural products that meet both aesthetic and technical requirements.
* Aim to put the architectural profession into community service, sensitive to human problems, open to environmental and social challenges, while respecting traditions, recognizing and protecting the values of the built and natural environment.

Autonomy:

- Doing the work in the knowledge of the social impact of the built environment.

Subject content

The course content is mainly a series of consultations in lab format. This is complemented by a critical consultation and a final presentation during the semester. On these occasions, in addition to verbal feedback, point feedback will be provided.

The course includes:

* Regular (weekly) supervision by a teacher of the Architectural Institute. There are generating feedbacks by Main Supervisor after consultations and exams.
* Critical consultation (week 7)
* Final presentation (week 13)

Examination and evaluation system

In all cases. Annex 5 of the Statutes of the University of Pécs, the Code of Studies and Examinations (CSE) of the University of Pécs shall prevail.

Attendance

In accordance with the Code of Studies and Examinations of the University of Pécs, Article 45 (2) and Annex 9. (Article 3) a student may be refused a grade or qualification in the given full-time course if the number of class absences exceeds 30% of the contact hours stipulated in the course description.

Method for monitoring attendance: attendance record

Grading will follow the course structure with the following weight:

Critical consultation 20 %

Final presentation 80 %

Opportunity and procedure for re-takes (PTE CSE 47§(4)): The critical consultation can be improved at the time announced in the course programme. The final presentation may be revised during the exam period. The precise date for this is also indicated in the course programme.

Grade calculation as a percentage based on the aggregate performance according to the following table:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Grade: | 5 | 4 | 3 | 2 | 1 |
|  | A, excellent | B, good | C, average | D, satisfactory | F, Fail |
| Performance in % | 85%-100% | 70%-84% | 55%-69% | 40%-55% | 0-39% |

Readings and Reference Materials

Required:

Peter Zilahi: Design Methodology 1. (2020, Pécs)

More:

Uta Graff: Thinking through Material (2018, München)

Bert Bielefeld: Planning Architecture, Dimensions and typologies (2016, Basel)

[E. Neufert, P. Neufert. Neufert Architects' Data](http://joom.ag/0Lhb) (2002)

[Julius Panero, Martin Zelnick: Human Dimension and Interior Space: A Source Book of Design Reference Standards ISBN 0823072711. Watson-Guptill](http://joom.ag/WYhb) (1979)

Methodology

The course is based on through collaboration, participation and discussions trough lessons. This is an interaction between Students and professors; used the teaching methods like ‘Problem-based learning’ and ‘learning-by-doing’.

Method:

1. continuous consultation during class time, according to announced in the detailed course programme

2. discussion of the design project with the instructor during the consultation periods

3. independent work at home

4. independent research, data collection, analysis

Students with Special Needs

Students with a disability and needs to request special accommodations, please, notify the Deans Office. Proper documentation of disability will be required. All attempts to provide an equal learning environment for all will be made.

Annex:

A01 Course Programme

A02 Code of Studies and Examinations

Course programme

Legend:

L = Lecture

S = selection

C = consultation

CC = critical consultation

F = final presentation

|  |  |  |  |
| --- | --- | --- | --- |
| week | activity | purpose | evaluation |
| 1 | L | Opening presentations  Friday, 11.00, É81  Dr. Péter Zilahi | attendance |
|  | S | Selection of project tasks  Friday, 13.00, É81  Students are required to make a digital presentation of their public building plans from previous semesters (at least 2) The presentation should be no longer than 10 minutes.  The presentation should show the functional and structural context of the buildings.  The jury will then discuss the strengths and weaknesses of the designs with the student. They will then decide which work should form the basis of the course. | verbal assessment and selection |
| 2 | C | Consultations  Friday, 11.00, É81  Dr. Péter Zilahi  Dr. Veronika Sztranyák  Dr. Bálint Baranyai  During the consultations, students consult each consultant separately. The order of the consultations is free. | active attendance |
| 3 | C | Consultations  Friday, 11.00, É81  Dr. Péter Zilahi  Dr. Veronika Sztranyák  Dr. Bálint Baranyai  During the consultations, students consult each consultant separately. The order of the consultations is free. | active attendance |
| 4 | C | Consultations  Friday, 11.00, É81  Dr. Péter Zilahi  Dr. Veronika Sztranyák  Dr. Bálint Baranyai  During the consultations, students consult each consultant separately. The order of the consultations is free. | active attendance |
| 5 | C | Consultations  Friday, 11.00, É81  Dr. Péter Zilahi  Dr. Veronika Sztranyák  Dr. Bálint Baranyai  During the consultations, students consult each consultant separately. The order of the consultations is free. | active attendance |
| 6 | C | Consultations  Friday, 11.00, É81  Dr. Péter Zilahi  Dr. Veronika Sztranyák  Dr. Bálint Baranyai  During the consultations, students consult each consultant separately. The order of the consultations is free. | active attendance |
| 7 | CC | Critical Consultation  Friday, 11.00, É81  In the critical consultation, the task is presented in a hybrid mode. All concept diagrams and visualizations must be presented digitally. Technical drawings may also be included in the digital presentation.  Technical drawings must be presented in printed format. The size of the posters is optional.  Required content:  Diagrams:   * functional diagrams * site analysis * exploded axonometric drawings * 3 visualizations   Technical drawings:   * site plan 1:200 * floor plan(s) 1:50 * sections (at least two) 1:50 * elevations m=1:50 * detail drawings (at least five) m=1:10 | short verbal feedback and scoring, maximum 20 points  Evaluation criteria:   * connections and relations between the human, natural and architectural environment * social, economic, and ethical responsibility * structural and building structural solutions * aesthetic, functional, technical, economic and social requirements * high-quality, harmonious architectural products |
| 8 | C | Consultations  Friday, 11.00, É81  Dr. Péter Zilahi  Dr. Veronika Sztranyák  Dr. Bálint Baranyai  During the consultations, students consult each consultant separately. The order of the consultations is free. | active attendance |
| 9 | C | Consultations  Friday, 11.00, É81  Dr. Péter Zilahi  Dr. Veronika Sztranyák  Dr. Bálint Baranyai  During the consultations, students consult each consultant separately. The order of the consultations is free. | active attendance |
| 10 | C | Consultations  Friday, 11.00, É81  Dr. Péter Zilahi  Dr. Veronika Sztranyák  Dr. Bálint Baranyai  During the consultations, students consult each consultant separately. The order of the consultations is free. | active attendance |
| 11 | C | Consultations  Friday, 11.00, É81  Dr. Péter Zilahi  Dr. Veronika Sztranyák  Dr. Bálint Baranyai  During the consultations, students consult each consultant separately. The order of the consultations is free. | active attendance |
| 12 | C | Consultations  Friday, 11.00, É81  Dr. Péter Zilahi  Dr. Veronika Sztranyák  Dr. Bálint Baranyai  During the consultations, students consult each consultant separately. The order of the consultations is free. | active attendance |
| 13 | F1 | Final Presentation  Friday, 11.00, É81  In the final presentation, the task is presented in a hybrid mode. All concept diagrams and visualizations must be presented digitally. Technical drawings may also be included in the digital presentation.  Technical drawings must be presented in printed format. The size of the posters is optional.  Required content:  Diagrams:   * functional diagrams * site analysis * exploded axonometric drawings * 3 visualizations   Technical drawings:   * site plan 1:200 * floor plan(s) 1:50 * sections (at least two) 1:50 * elevations m=1:50 * detail drawings (at least ten) m=1:10 * paper model 1:200 with wider environment | verbal feedback and scoring, maximum 80 points  Evaluation criteria:   * connections and relations between the human, natural and architectural environment * social, economic, and ethical responsibility * structural and building structural solutions * aesthetic, functional, technical, economic and social requirements * high-quality, harmonious architectural products |
| 15 | F2 | Final Presentation  In the final presentation, the task is presented in a hybrid mode. All concept diagrams and visualizations must be presented digitally. Technical drawings may also be included in the digital presentation.  Technical drawings must be presented in printed format. The size of the posters is optional.  Required content:  Diagrams:   * functional diagrams * site analysis * exploded axonometric drawings * 3 visualizations   Technical drawings:   * site plan 1:200 * floor plan(s) 1:50 * sections (at least two) 1:50 * elevations m=1:50 * detail drawings (at least ten) m=1:10 * paper model 1:200 with wider environment | verbal feedback and scoring, maximum 80 points  evaluation criteria:   * connections and relations between the human, natural and architectural environment * social, economic, and ethical responsibility * structural and building structural solutions * aesthetic, functional, technical, economic and social requirements * high-quality, harmonious architectural products |

If the announced locations need to be changed, we will inform you in time via the TEAMS interface!

Registration for final examination: 26th of November 2023, Sunday 24:00 am CEST

late registration with extra fee: 11th of December 2023, Monday 24:00 am CEST

Deadline for thesis submitting: 8th of January 2024, Monday 24:00 am CEST

Final examination period: starts: 22th of January 2024 Monday

ends: 1st of February 2024 Thursday

Graduation ceremony: 9th of February 2024 Friday

Pécs, 28.08.2023

Péter ZILAHI Dr.

responsible lecturer